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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,542	0	1/22/2002	Timothy Wayne Crockett	RPS920000103US2 7178	
25299	7590	06/23/2004		EXAMINER	
IBM COR	PORATIO	N	TRINH, MINH N		
PO BOX 12	195				
DEPT 9CC	A, BLDG 0	02	ART UNIT	PAPER NUMBER	
		LE PARK, NC 27	3729		

DATE MAILED: 06/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

·						
	Application No.	Applicant(s)				
	10/054,542	CROCKETT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Minh Trinh	3729				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state that the material part of	N. 1.136(a). In no event, however, may a reply be ting the statutory minimum of thirty (30) day and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	nely filed /s will be considered timely. It the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 22	January 2002.					
	his action is non-final.					
3) Since this application is in condition for allow		osecution as to the merits is				
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 21-40 is/are pending in the applica 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 21-40 are subject to restriction and	rawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exam	iner.					
10)☐ The drawing(s) filed on is/are: a)☐ a	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to t						
Replacement drawing sheet(s) including the corr	• • • • • • • • • • • • • • • • • • • •					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documed 2. Certified copies of the priority documed 3. Copies of the certified copies of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication for a line of the	ents have been received. ents have been received in Applicat riority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail D					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 		Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 21-29, drawn to method <u>for reducing impedance</u> within a reference path in a PCB, classified in class 29, subclass 832.
- II. Claims 30-40, drawn to a method <u>for saving space</u> in a PCB, classified in class 29, subclass 834.

The inventions are distinct, each from the other because of the following reasons: Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions I and II have different modes of operation, such as method invention I (= for reducing impedance within a reference path in a PCB) - versus- method invention II (= for invention I for saving space in a PCB). Furthermore, method invention II does not require "the two or more vias is part of a signal path configured to carry the signal from the first layer to the second layer. . ." as recited in claim 21, lines 7-10 of the method invention I.

2. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

3. A telephone call was made to Bruce Schelkopf on 6/21/04 to request an oral election to the above restriction requirement, but did not result in an election being made. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Trinh whose telephone number is (703) 305-2887. The examiner can normally be reached on Monday -Thursday 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Minh Trinh 6/21/04

Patent examiner Group 3729

mt